

What is claimed is:

1. A method for forming wedges in a space comprising:

placing an outer frame into said space, wherein said outer frame is thinner than said space and wherein said outer frame contains a lateral gap;

inserting into said lateral gap an inner layer, wherein said inner layer comprises at least one stiff sheet material coated with a felt material that is saturated with a resin, wherein the inserting of said inner layer forces said outer formed frame onto abutments on either side of said space; and

curing said resin;

wherein said wedge snuggly fits into said space and remains snuggly fit after said resin is cured.

2. A method of forming wedges in a space comprising;

obtaining an outer formed frame, wherein said outer formed frame is thinner than said space and wherein said outer formed frame contains a lateral gap;

placing said outer formed frame into said space;

inserting into said lateral gap an inner layer, wherein said inner layer comprises a stiff sheet material and wherein a felt material is mounted on at least one side of said inner layer;

wherein the inserting of said inner layer forces said outer formed frame onto abutments on either side of said space;

wherein a resin is saturated in said felt material; and

curing said resin;

wherein said wedge snuggly fits into said space and remains snuggly fit after said resin is cured.

3. The method of claim 2, wherein said lateral gap bisects said outer formed frame.
4. The method of claim 2, further comprising trimming said inner layer so that said inner layer is flush with said outer formed frame.
5. The method of claim 2, further comprising machining said outer formed frame prior to inserting said inner layer.
6. The method of claim 2, wherein said inner layer comprises a plurality of stiff sheet materials.
7. The method of claim 2, wherein said outer formed frame comprises at least one of a glass material and a resinous glass material.
8. The method of claim 2, wherein said stiff sheet material comprises at least one of a glass material and a resinous glass material.
9. The method of claim 2, wherein said felt material comprises at least one of glass, polyester, nylon and mixtures thereof.
10. The method of claim 2, wherein said resin comprises at least one of epoxy thermosets, polyester thermosets, , phenolic thermosets, -acrylic thermosets, and mixtures thereof.
11. The method of claim 2, wherein said felt material is mounted on said stiff sheet material is a predetermined pattern.
12. The method of claim 11, wherein said predetermined pattern is in line with the approximate area of where said outer formed frame is forced onto said abutments on either side of said space.
13. The method of claim 11, wherein inserting said inner layer into said lateral gap is performed prior to inserting said outer formed frame into said space.
14. A wedge pre-shaped for use in a generator comprising:
an outer formed frame;

an inner layer, wherein said inner layer comprises at least one stiff sheet material; and

a felt material mounted on at least one side of said inner layer;

wherein said felt material is saturated with a resin;

wherein said inner layer is shaped to fit in a lateral gap within said outer formed frame;

wherein said wedge is electrically insulating.

15. The wedge of claim 14, wherein said inner a layer transverses a limited portion of said outer formed frame.

16. The wedge of claim 14, wherein said lateral gap bisects said outer formed frame.

17. The wedge of claim 14, wherein said outer formed frame comprises at least one of a glass material and a resinous glass material.

18. The wedge of claim 14, wherein said stiff sheet material comprises at least one of a glass material and a resinous glass material.

19. The wedge of claim 14, wherein said felt material comprises at least one of glass, polyester, nylon and mixtures thereof.

20. The wedge of claim 14, wherein said resin comprises at least one of epoxy thermosets, polyester thermosets, phenolic thermosets, acrylic thermosets, and mixtures thereof.